

Title (en)

Clock distribution arrangement for time-multiplexed switched optical network.

Title (de)

Taktverteilungsvorrichtung für ein zeitmultiplexgeschaltetes optisches Netzwerk.

Title (fr)

Agencement de la distribution de rythme pour réseau optique commuté par multiplexage dans le temps.

Publication

EP 0385644 A1 19900905 (EN)

Application

EP 90301851 A 19900221

Priority

US 31688189 A 19890228

Abstract (en)

In an optical time-multiplexed switched communication system, a master clock signal is distributed optically to subscribers (10,11,12,13) via a central switch (20). The switch (20) modulates a portion of an optical data signal with a representation of the master clock signal prior to its broadcast to a selected subscriber. Several different embodiments of the switch are described for modulating contiguous bit positions reserved within the optical data signal. One embodiment is described for continuously modulating the envelope of the optical data signal with a low amplitude representation of the master clock signal. All embodiments of the switch eliminate both the need for a separate network for broadcasting the master clock signal to subscribers and the need for allocating a specific wavelength to broadcast the master clock signal.

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H04B 10/20; **H04J 3/00**; **H04Q 3/00**

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CPC (source: EP KR)

H04B 10/00 (2013.01 - KR); **H04L 7/0075** (2013.01 - EP); **H04Q 11/0001** (2013.01 - EP)

Citation (search report)

- [X] US 4797951 A 19890110 - DUXBURY COLIN M [GB], et al
- [A] US 4562582 A 19851231 - TOKURA NOBUYUKI [JP], et al
- [A] US 4736462 A 19880405 - JOEL JR AMOS E [US]

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